PATENT COOPERATION TREATY

PCT

INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference	FOR FURTHER ACTION	see Form PCT/ISA/220 well as, where applicable, item 5 below.						
		th/year) (Earliest) Priority Date (day/n 16 March 2004 (16.03.2004)						
Applicant								
HARGRAVES TECHNOLOGY CORPORATION								
Basis of the Report With regard to the language, the international translation of the formula of a translation of the formula of the	of a total of sheets. I by a copy of each prior art docu international search was carried ou application in the language in whice the international application into urnished for the purposes of interna de and/or amino acid sequence di unsearchable (See Box No. II) g (See Box No. III)	nent cited in this report. on the basis of: it was filed. , which is the citoal search (Rules 12.3(a) and 23.1(b)) closed in the international application, see E	language					
5. With regard to the abstract								
 With regard to the abstract, the text is approved as submit 	tted by the applicant.		1					
the text has been established,	according to Rule 38.2(b), by this	authority as it appears in Box No. IV. The nal search report, submit comments to this A	applicant Authority.					
6. With regard to the drawings, a. the figure of the drawings to be published with the abstract is Figure No. 2								
a. the figure of the drawings to be portion as suggested by the a		NO. <u>∠</u>	ľ					
	uthority, because the applicant faile	l to suggest a figure.						
as selected by this A	uthority, because this figure better	naracterizes the invention.						
b none of the figures is to be pu	blished with the abstract.							

orm PCT/ISA/210 (first sheet) (April 2005

INTERNATIONAL SEARCH REPORT

International application No.

PCT/US05/08777

CLASSIFICATION OF SUBJECT MATTER IPC:

Special categories of cited documents:

Form PCT/ISA/210 (second sheet) (April 2005)

F16J 3/00(2006.01) F04B 45/00(2006.01)

USPC: 92/98R

According to International Patent Classification (IPC) or to both national classification and IPC

FIELDS SEARCHED B.

Minimum documentation searched (classification system followed by classification symbols) U.S.: 92/98R, 96; 417/395, 413.1

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used) EAST: pump, diaphragm, bead, gasket

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No
A,P	US 2004/0076526 A1 (FUKANO et al.) 22 April 2004 (22.04.2004), figure 1	1-9, 15-20
Α	US 6,338,295 B1 (KUBOTA et al.) 15 January 2002 (15.01.2002), figure 1	1-20
T, P	US 6,776,591 B1 (RINNINGER et al.) 17 August 2004 (17.08.2004), figure 1	1, 15
Α	US 5,275,541 A (BECKER et al.) 04 January 1994 (04.01.1994), figure 1	1-9, 15-20
ĺ		
7	documents are listed in the continuation of Box C. See patent family annex.	

later document published after the international filing date or priority date and not in conflict with the application but cited to understand the

"	particular relevance		principle of theory underlying the invention
"E" earlier application or patent published on or after the international filing date		"X"	document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
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	establish the publication date of another citation or other special reason (as specified)		document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined
"O"	document referring to an oral disclosure, use, exhibition or other means		with one or more other such documents, such combination being obvious to a person skilled in the art
"P"	document published prior to the international filing date but later than the priority date claimed	"&"	document member of the same patent family
Date	of the actual completion of the international search	Date of	mailing of the international search report
17 April 2006 (17.04.2006)			20 JUN ZOUD
Name and mailing address of the ISA/US		Authori	officer /
	Mail Stop PCT, Attn: ISA/US Commissioner for Patents	Thomas	E. Lazo de Pulmar
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